

Please type a plus sign (+) inside this box → ☒Approved for use through 09/30/2000. OMB 0651-0032  
Patent and Trademark Office. U.S. DEPARTMENT OF COMMERCE  
Under the Paperwork Reduction Act of 1995 no persons are required to respond to a collection of information unless it displays a valid OMB control number**UTILITY  
PATENT APPLICATION  
TRANSMITTAL**

(Only for new nonprovisional applications under 37 C.F.R. § 1.53(b))

Attorney Docket No. MSC-23228-1

First Inventor or Application Identifier

Patrick W. Fink, et al.

Title

Distributed Antenna System and Method

Express Mail Label No.

EF775095686US

**APPLICATION ELEMENTS**

See MPEP chapter 600 concerning utility patent application contents

ADDRESS TO:

Assistant Commissioner for Patents  
Box Patent Application  
Washington, DC 20231

1. ☒ \* Fee Transmittal Form (e.g., PTO/SB/17)  
(Submit an original and a duplicate for fee processing)
2. ☒ Specification [Total Pages 41]  
(preferred arrangement set forth below)
- Descriptive title of the Invention
  - Cross References to Related Applications
  - Statement Regarding Fed sponsored R & D
  - Reference to Microfiche Appendix
  - Background of the Invention
  - Brief Summary of the Invention
  - Brief Description of the Drawings (if filed)
  - Detailed Description
  - Claim(s)
  - Abstract of the Disclosure
3. ☒ Drawing(s) (35 U.S.C. 113) [Total Sheets 4]
4. Oath or Declaration [Total Pages 2]
- a. ☒ Newly executed (original or copy)
- b. ☐ Copy from a prior application (37 C.F.R. § 1.63(d))  
(for continuation/divisional with Box 16 completed)
- ☐ DELETION OF INVENTOR(S)  
Signed statement attached deleting  
inventor(s) named in the prior application,  
see 37 C.F.R. §§ 1.63(d)(2) and 1.33(b).

\*NOTE FOR ITEMS 1 & 13 IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY  
FEES, A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), EXCEPT  
IF ONE FILED IN A PRIOR APPLICATION IS RELIED UPON (37 C.F.R. § 1.28)

5. ☐ Microfiche Computer Program (Appendix)
6. Nucleotide and/or Amino Acid Sequence Submission  
(if applicable, all necessary)
- a. ☐ Computer Readable Copy
- b. ☐ Paper Copy (identical to computer copy)
- c. ☐ Statement verifying identity of above copies

**ACCOMPANYING APPLICATION PARTS**

7. ☒ Assignment Papers (cover sheet & document(s))
8. ☐ 37 C.F.R. § 3.73(b) Statement (when there is an assignee) ☐ Power of Attorney
9. ☐ English Translation Document (if applicable)
10. ☒ Information Disclosure Statement (IDS)/PTO-1 449 ☒ Copies of IDS Citations
11. ☐ Preliminary Amendment
12. ☒ Return Receipt Postcard (MPEP 503)  
(Should be specifically itemized)
13. ☐ \* Small Entity Statement(s) filed in prior application, Status still proper and desired (PTO/SB/09-12)
14. ☐ Certified Copy of Priority Document(s)  
(if foreign priority is claimed)
15. ☒ Other. Letter containing the certificate of mailing consisting of 1 page and return postcard

**16. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in a preliminary amendment**

☐ Continuation ☐ Divisional ☐ Continuation-in-part (CIP)  
Prior application information Examiner

of prior application No. \_\_\_\_\_

Group / Art Unit \_\_\_\_\_

For CONTINUATION or DIVISIONAL APPS only: The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 4b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.

**17. CORRESPONDENCE ADDRESS**☒ Customer Number or Bar Code Label

(Insert Customer No. or Attach bar code label here)

or ☐ Correspondence address below

Name	NASA Johnson Space Center				
	Attn: Hardie R. Barr, Mail Code HA				
Address	2101 NASA Road One				
	Houston, Texas 77058				
City	Houston	State	Texas	Zip Code	77058
Country	USA	Telephone	281-483-1003	Fax	281-244-8452

Name (Print/Type)	Hardie R. Barr	Registration No. (Attorney/Agent)	31,480
Signature	<i>Hardie R. Barr</i>	Date	5-24-01

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## Express Mailing Certificate No. EF775095686US

PTO/SB/17 (11-00)

Approved for use through 10/31/2002. OMB 0651-0032

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**FEE TRANSMITTAL  
for FY 2001**

Patent fees are subject to annual revision

TOTAL AMOUNT OF PAYMENT

(\$ 1,342.00

## Complete if Known

Application Number

Filing Date

05/24/01

First Named Inventor

Patrick W. Fink

Examiner Name

Group Art Unit

Attorney Docket No.

MSC-23228-1

## METHOD OF PAYMENT

- 1.
- ☒
- The Commissioner is hereby authorized to charge indicated fees and credit any overpayments to

Deposit  
Account  
Number

14-0116

Deposit  
Account  
NameNational Aeronautics & Space  
Administration

- ☒
- Charge Any Additional Fee Required
- 
- Under 37 CFR 1.16 and 1.17

☐ Applicant claims small entity status  
See 37 CFR 1.27

- 2.
- ☐
- Payment Enclosed:

☐ Check☐ Credit card☐ Money  
Order☐ Other

## FEE CALCULATION

## 1. BASIC FILING FEE

Large Entity Small Entity

Fee Fee Fee Fee Fee Description

Code (\$)	Code (\$)	Code (\$)	Code (\$)	Code (\$)	Fee Description
101	710	201	355		Utility filing fee
106	320	206	160		Design filing fee
107	490	207	245		Plant filing fee
108	710	208	355		Reissue filing fee
114	150	214	75		Provisional filing fee

Fee Paid

710.00

SUBTOTAL (1) (\$ 710.00

## 2. EXTRA CLAIM FEES

Total Claims	Extra Claims	Fee from below	Fee Paid
44	-20** = 24	18	432
5	-3** = 2	80	160
			592

Large Entity Small Entity

Fee Fee Fee Fee Fee Description

Code (\$)	Code (\$)	Code (\$)	Code (\$)	Code (\$)	Fee Description
103	18	203	9		Claims in excess of 20
102	80	202	40		Independent claims in excess of 3
104	270	204	135		Multiple dependent claim, if not paid
109	80	209	40		** Reissue independent claims over original patent
110	18	210	9		** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$ 592.00

\*\*or number previously paid, if greater, For Reissues, see above

## FEE CALCULATION (continued)

## 3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid		
105	130	205	65	Surcharge - late filing fee or oath	
127	50	227	25	Surcharge - late provisional filing fee or cover sheet	
139	130	139	130	Non-English specification	
147	2,520	147	2,520	For filing a request for ex parte reexamination	
112	920*	112	920*	Requesting publication of SIR prior to Examiner action	
113	1,840*	113	1,840*	Requesting publication of SIR after Examiner action	
115	110	215	55	Extension for reply within first month	
116	390	216	195	Extension for reply within second month	
117	890	217	445	Extension for reply within third month	
118	1,390	218	695	Extension for reply within fourth month	
128	1,890	228	945	Extension for reply within fifth month	
119	310	219	155	Notice of Appeal	
120	310	220	155	Filing a brief in support of an appeal	
121	270	221	135	Request for oral hearing	
138	1,510	138	1,510	Petition to institute a public use proceeding	
140	110	240	55	Petition to revive - unavoidable	
141	1,240	241	620	Petition to revive - unintentional	
142	1,240	242	620	Utility issue fee (or reissue)	
143	440	243	220	Design issue fee	
144	600	244	300	Plant issue fee	
122	130	122	130	Petitions to the Commissioner	
123	50	123	50	Processing fee under 37 CFR 1.17(q)	
126	180	126	180	Submission of Information Disclosure Stmt	
581	40	581	40	Recording each patent assignment per property (times number of properties)	40.00
146	710	246	355	Filing a submission after final rejection (37 CFR § 1.129(a))	
149	710	249	355	For each additional invention to be examined (37 CFR § 1.129(b))	
179	710	279	355	Request for Continued Examination (RCE)	
169	900	169	900	Request for expedited examination of a design application	

Other fee (specify) \_\_\_\_\_

\*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$ 40.00

## SUBMITTED BY

Name (Print/Type)

Hardie R. Barr

Registration No  
(Attorney/Agent)

31,480

## Complete (if applicable)

Telephone

281-483-1003

Signature

Hardie R. Barr

Date

5-24-01

**WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**

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NASA CASE NO. 23228-1

Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Daniel S. Goldin ) Group Art  
First Named Inventor: Patrick W. Fink ) Unit:  
Serial No.: )  
Filed : May 24, 2001 )  
For: Distributed Antenna System and Method )  
)  
)

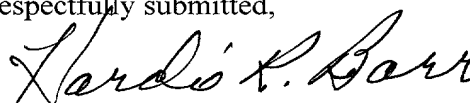
Letter

Commissioner of Patents  
and Trademarks  
Washington, D.C. 20231

Sir:

The enclosed application is being filed in accordance with Rules 1.10 and 1.53(b) in order to obtain a filing date of May 24, 2001. The application is being sent by Express Mail "Post Office to Addressee" under Certificate EF775095686US.

Respectfully submitted,

  
Hardie R. Barr, Reg. No. 31,480  
Attorney for Applicant

Houston, Texas 77058  
Telephone: 281-483-1003 or 281-483-4871  
Datafax: 281-244-8452

I hereby certify that the attached application "Distributed Antenna System and Method," is being deposited with the United States Postal Service on May 24, 2001, as Express Mail "Post Office to Addressee" under Certificate No. EF775095686US in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231.

  
Hardie R. Barr

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